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Northfleet Urban District Council

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ANNUAL REPORT

OF THE

Medical Officer of Health

For the Year 1953

BY

M. F. McDONNELL, M.B., B.Ch., B.A.O., D.P.H.
MEDICAL OFFICER OF HEALTH

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NORTHFLEET URBAN DISTRICT COUNCIL.

Annual Report of the Medical Officer of Health for the year ended 31st December, 1953

BY

M. F. McDONNELL, M.B., B.Ch., B.A.O., D.P.H.
(Medical Officer of Health).

To the Chairman and Members of the
Northfleet Urban District Council.

Mr. Chairman, Ladies and Gentlemen,

I have pleasure in submitting my Annual Report for the year 1953 upon the public health circumstances of the Urban District of Northfleet.

Population. There was an increase of 130 in the Registrar General's estimate, from 19,150 in 1952 to 19,280 for the present year.

Birth Rate. The number of births during the year was 334, an increase of 54 over the previous year, giving a rate for the district of 17.32—the highest for the past five years. The rate for England and Wales is 15.5.

The still-birth figure is low, at 5 in number, providing a rate of 14.74 which compares most favourably with that for the country as a whole, which is 22.4.

General Death Rate. Northfleet's death rate for 1953 was 10.63 per thousand of the population; the number of deaths being 205. Both these figures are the lowest for the past 4 years. The rate for England and Wales is 11.4.

Natural Increase of the Population. With Northfleet's large number of births and low deaths the natural increase in population for the year shows the excellent figure of 129 births in excess of the deaths.

Infant Mortality. The rate for deaths of infants under one year is low at 14.97, the rate for the whole country being 26.8. The actual number of infants who died during the year was 5. This figure is extremely good, and shows a remarkable improvement over those for 1951 and 1952, which were 11 and 12 respectively.

Provision of Health Services in the Area. Following my usual custom, I have included a summary of the local health services available. These services are administered by the Kent County Council as the Local Health Authority, and I have also included an up-to-date time-table in the form of an Appendix to the report.

Infectious Disease. The statements showing the incidence of notifiable disease follows the form of previous years. The figures call for no especial comment. Scarlet fever and measles were rather more prevalent then in the previous year, but no significance is attached to the increase.

Deaths from tuberculosis continue to remain at their low level, the year's rate for Northfleet being 0.25, compared with that of England and Wales of 0.20 persons per thousand. Both these figures are good.

Sanitary Circumstances. The water supply during the year remained abundant and wholesome. Work of construction of the trunk sewer, ultimately serving the rural parts of the district on the southern boundary, is now in progress ; the immediate purpose of the present scheme is to provide drainage facilities for the Council's new housing estate on the Painter's Ash site, and provision has been made in the design of the sewer for draining the Council's rural areas and parts of the neighbouring Rural District Council's parishes.

Housing. Included in the report is a statement showing that 24 unfit dwellings were either closed or demolished during the year ; and the final form of the Government's proposals to deal with repair of existing houses is awaited with interest.

Atmospheric Pollution. 1953 was a year notable for a marked increase in criticism of the cement dust nuisance, culminating in a Conference attended by all interested parties in the Thames-side area. At the Conference it was acknowledged that increased nuisance from cement dust occurred during the first quarter of the year. Reasons advanced for the increase were climatic conditions—fogs, absence of rain and wind ; a breakdown of dust-arresting plants in the works (five precipitators out of 23 were out of commission due to repair) and despite this there existed overall urgent demands upon the industry which required that cement kilns were kept at full productive capacity throughout the period.

It was stated that in future overhauls of the plant and repairs would, as far as possible, be staggered, to avoid a repetition of the circumstances, and it was decided to initiate a system for the measurement of atmospheric pollution in the area of the Thames-Side Committee for the Abatement of Atmospheric Pollution.

Northfleet has one standard deposit gauge in operation under this scheme, and I have included a copy of the results obtained in the body of the report.

In conclusion, I have again to record my appreciation of the help and encouragement afforded me by the Council during the year, and to extend to my fellow officers and staff my appreciation of their co-operation and loyalty.

Your obedient Servant,

M. F. McDONNELL,

Medical Officer of Health.

MEMBERS OF THE HEALTH COMMITTEE.

1953.		1954.	
Councillor	T. S. White (Chairman)	Councillor	T. S. White (Chairman)
,,	W. J. Dawson	,,	W. J. Dawson
,,	K. H. Price	,,	C. A. Hall
,,	E. J. J. C. Rouse	,,	Miss I. B. F. MacDougall
,,	Mrs. I. Walter	,,	K. H. Price
,,	Mrs. V. G. Westcott, J.P.	,,	E. J. J. C. Rouse

Member of No. 5 Area Sub-Committee, Kent County Council:

1953 Councillor T. S. White

1954 Councillor W. J. Dawson

Clerk:

Mr. W. G. Futcher.

Solicitors:

Messrs. Church, Bruce & Co.

Officers in Public Health Department:

Medical Officer of Health: M. F. McDonnell, M.B., B.Ch., B.A O , D.P.H.

Chief Sanitary Inspector: J. S. Cowpland, C.S.I.E.B., Meat and Food Inspector.

Additional Sanitary Inspector: A. J. Munford, C.S.I.E.B., Meat and Food Inspector.

Clerk: - - - Miss C. E. Keen.

A. STATISTICAL AND SOCIAL CONDITIONS OF AREA.

Area (Including 397 acres of Tidal and Inland Water and Foreshore) ...	4,162
Population (Census 1951)	18,803
Population (Census 1931)	16,080
Population (Registrar General's Estimate 1953)	19,280
No. of Inhabited Houses (31st December, 1953)	5,782
No. of New Houses erected during year ended 31st December, 1953 ...	131
Rateable Value, 1953	£126,731
1952	£123,297
1951	£120,917
Sum represented by penny rate, 1953	£515
1952	£522
1951	£460

PHYSICAL FEATURES AND GENERAL CHARACTER OF THE DISTRICT

Northfleet has for its northern boundary the River Thames. On its eastern boundary the Borough of Gravesend. The Rural Districts of Dartford and Strood form the southern boundary and the Urban District of Swanscombe is on the west.

The level of the ground is approximately 0 feet above sea level on the northern boundary and rises to approximately 300 feet on the southern boundary.

The high level of employment has remained fairly constant over the area during past few years. The number of people employed in the major industries is shown by the tabulated list below as approximately 5,000.

	M.	F.	Total
The Amalgamated Press Ltd.	561	147	708
A.P.C.M. (Bevans Works)	646	56	702
Bowater's Thames Paper Mills	983	117	1,100
Britannia Lead Co., Ltd.	144	5	149
Gravesend Welding & Electrical Eng. Works Ltd.	113	8	121
W. T. Henley's Telegraph Works	1,404	931	2,335

VITAL STATISTICS.

Births.

Births notified during 1953 totalled 334, being 179 males and 155 females.

The number of births this year, 334, showed a considerable increase over the preceding years, as shown in the table below :—

	1949	1950	1951	1952	1953
Number of Births	311	252	305	280	334
Birth Rate per 1,000 population ...	16.66	13.37	16.18	14.62	17.32
Number of Illegitimate Births ...	8	6	7	8	5

		Total	M.	F.
Still births :	Legitimate ...	5	2	3
	Illegitimate	—	—	—

Deaths.

The registered deaths during the year totalled 205, 114 males and 91 females.

The numbers given are those registered during the year 1953 as adjusted for inward and outward transfers. I am informed that it is not practicable to include with the figures separate records of the inward and outward transfers.

The table below gives the comparison for the previous 4 years :—

	1949	1950	1951	1952	1953
Number of deaths	176	221	222	226	205
Death Rate per 1,000 est. population	9.43	11.73	11.77	11.80	10.63

Death Rate of Infants under one year of age :—

Total Infant deaths	5
All Infants per 1,000 Live Births	14.97
Legitimate Infants per 1,000 legitimate live births	15.19
Illegitimate Infants per 1,000 illegitimate live births	0.0
Deaths from Measles, all ages	0
Deaths from Whooping Cough, all ages	2
Deaths of Infants under 4 weeks of age	4

CAUSES OF DEATH IN NORTHFLEET URBAN DISTRICT, 1953.

Causes of Death.	Male.	Female.
All causes	114	91
Tuberculosis respiratory	3	2
Tuberculosis, other	—	—
Syphilitic disease	—	2
Diphtheria	—	—
Whooping Cough	1	1
Meningococcal infections	1	—
Acute poliomyelitis	—	—
Measles	—	—
Other infective and parasitic diseases	2	—
Cancer of stomach	5	1
Cancer of lung, bronchus	4	2
Cancer of breast	—	2
Cancer of uterus	—	1
Cancer of all other sites	14	6
Leukaemia, aleukaemia	1	1
Diabetes	—	2
Vascular lesions of nervous system	15	12
Coronary disease, angina	19	5
Hypertension with heart disease	2	1
Other heart disease	12	22
Other circulatory disease	3	3
Influenza	2	4
Pneumonia	3	2
Bronchitis	7	6
Other diseases of the respiratory system	1	1
Ulcer of the stomach or duodenum	1	1
Gastritis, enteritis and diarrhoea	—	—
Nephritis and nephrosis	2	1
Hyperplasia of prostate	3	—
Pregnancy, childbirth abortion	—	—
Congenital malformation	1	—
Other defined and ill-defined diseases	4	10
Motor Vehicle accidents	—	—
All other accidents	5	2
Suicide	2	1
Homicide	1	—

BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY MATERNAL MORTALITY AND CASE-RATES FOR CERTAIN INFECTIOUS DISEASES IN THE YEAR 1953.

PROVISIONAL FIGURES BASED ON QUARTERLY RETURNS.

	England and Wales	160 County Boro's and Great Towns including London.	160 Smaller Towns (Resident Pop. 25,000 to 50,000 at 1951 Census)	Administrative County London.	Northfleet.
	Rates per 1,000 Home Population.				
Births					
Live Births	15.5	17.0	15.7	17.5	17.32
Still Births	0.35	0.43	0.34	0.38	0.25
	22.4 (a)	24.8 (a)	21.4 (a)	21.0 (a)	14.74(a)
Deaths					
All causes	11.4	12.2	11.3	12.5	10.63
Typhoid and Paratyphoid	0.00	0.00	0.00	0.00	0.00
Whooping Cough	0.01	0.01	0.00	0.00	0.10
Diphtheria	0.00	0.00	0.00	0.00	0.00
Tuberculosis	0.20	0.24	0.19	0.24	0.25
Influenza	0.16	0.15	0.17	0.15	0.31
Smallpox	0.00	0.00	0.00	0.00	0.00
Acute Poliomyelitis (inc. Polioencephalitis)	0.01	0.01	0.01	0.01	0.00
Pneumonia	0.55	0.59	0.52	0.64	0.25
Notifications (Corrected)					
Typhoid fever	0.00	0.00	0.00	0.01	0.00
Paratyphoid fever	0.01	0.01	0.01	0.01	0.00
Meningococcal infection	0.03	0.04	0.03	0.03	0.05
Scarlet fever	1.39	1.50	1.44	1.02	1.45
Whooping cough	3.58	3.72	3.38	3.30	2.85
Diphtheria	0.01	0.01	0.01	0.00	0.00
Erysipelas	0.14	0.14	0.13	0.12	0.05
Smallpox	0.00	0.00	0.00	0.00	0.00
Measles	12.36	11.27	12.32	8.09	9.75
Pneumonia	0.84	0.92	0.76	0.73	0.87
Acute Poliomyelitis (including polioencephalitis)					
Paralytic	0.07	0.06	0.06	0.07	0.10
Non-paralytic	0.04	0.03	0.04	0.03	0.05
Food poisoning	0.24	0.25	0.24	0.38	0.00
Puerperal Pyrexia	18.23 (a)	24.33 (a)	12.46 (a)	28.61 (a)	0.05(a)
	Rates per 1,000 Live Births.				
Deaths					
All causes under 1 year of age	26.8(b)	30.8	24.3	24.8	14.97
Enteritis and Diarrhoea under 2 years of age	1.1	1.3	0.9	1.1	0.00

B. GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA.

A tabulated list, for which I am indebted to the County Medical Officer of Health, is shown in the appendix of the report. The list gives Health Services available in connection with the following :—

Care of Mothers and Young Children.
Ante-Natal Clinics and Post-Natal Clinics.
Child Welfare Centres.
Women's Welfare Clinics.
Day Nurseries.
Diphtheria Immunisation and Vaccination.
Domestic Help.
Health Visitors.
Domiciliary Midwifery Service.
Home Nursing Service.
Provision of Nursing Requisites.
County Ambulance Service.
Hospital Services.

HOSPITAL SERVICES.

The hospital and specialist services, including institutions for the chronic sick, mental homes, maternity homes, convalescent homes, chest clinics and out-patients departments are administered by the Regional Hospital Boards set up by the Minister of Health. The South-East Metropolitan Regional Board is responsible for all hospitals in Kent, but for day-to-day administration Hospital Management Committees have been set up to deal with groups of hospitals. Generally speaking admission to hospital is a matter for the doctor in charge of the patient and he will make arrangements direct with the hospital authorities, calling upon the County Ambulance Service for the removal of the patient to hospital where this is considered necessary.

NURSERY SCHOOL.

The Northfleet Nursery School provides accommodation for the daily care of children between the ages of 3 and 5 years. Priority is given to the children of mothers who must go to work in order to supplement insufficient wages; widows, children living in unhealthy, cramped home conditions; or where a doctor recommends admittance because of unsuitable home life. The staff is trained to deal with difficult children who need more phychological understanding than that provided at home.

Hours of attendance at the Nursery School are from 9 a.m. to 3.30 p.m. with normal school holiday periods. Meals are provided for the sum of 2/6d. per week. In addition to the ordinary diet, Ministry of Health Cod Liver Oil Compound, Orange Juice and two-thirds of a pint of milk is given.

At present 40 children are accommodated at the Nursery—most of them being from the Northfleet area—Application for admission should be made to the Superintendent (Mrs. Dowker), at the Northfleet Nursery School, London Road, Northfleet.

NORTHFLEET OLD PEOPLE'S WELFARE COMMITTEE

The Northfleet Old People's Welfare Committee, formed during 1951, was active throughout the past year.

The Committee is composed of 18 members from various local organisations, and is maintained by voluntary subscriptions and grants from charitable organisations.

It is affiliated to the Kent Council of Social Service, and its objects are to provide facilities for physical and mental recreation, the relieving of poverty, distress or sickness and the pursuing of any objects of a charitable nature not otherwise provided for by statutory authorities or local organisations.

The Committee distributed 90 parcels to old folk at Christmas. Six outings were arranged, and through the good services of the Gravesend Old People's Welfare Committee it was possible to use their coach on a further six occasions for outings.

The scheme inaugurated during 1951 to provide a chiropodist at reduced fees continues to operate, and in addition the chiropodist visits folk in their own homes, where necessary.

The Committee sponsored the opening of the Forget-Me-Not Club to meet the needs of old people in the Perry Street area, and it is proving most successful.

The Secretary of the Committee is Mrs. I. Walter of 44, Seymour Road, Northfleet and the Chairman is Mr. P. Barker of 6, Fiveash Road, Northfleet.

NORTHFLEET DIAMOND JUBILEE SAMARITAN FUND

The following is an extract from a report on the work of the Fund during the year 1953, submitted by Mr. W. P. Grant, Hon. Secretary Northfleet Diamond Jubilee Samaritan Fund (one of the two Voluntary Nursing Associations remaining in Kent).

The following is a summary of the work of the Nurses during the year:—

Patients under treatment, 1st January, 1953	35
New patients during the year	175
Total	210

Of these there have been :—

Cured or relieved	93
Admitted to hospital	30
Admitted to Nursing Home	2
Left Northfleet	3
Died	40
Still under treatment, 31st December, 1953	42
Total	210

The total number of visits paid by the Nurses during the year is 8,915, which is 2,379 more than last year, and the largest and smallest weekly totals are 223 and 131.

The number of patients (210) is the largest number ever attended by our Nurses, and is 40 more than last year. The number cured or relieved is half as large again, and the number of deaths is lower, and includes 16 who died between the ages of 70 and 79, and 10 between 80 and 89 and 1 over 90, which means that a larger number of very old people have been well nursed and comforted at the end of their long lives.

The Committee wish to place on record their appreciation of the good work of Mrs. D. Paine and Mrs. M. P. O'Flynn, whose work has also received the approval of the County Superintendent.

C. PREVALENCE OF, AND CONTROL OVER INFECTIOUS AND OTHER DISEASES.

The statement below shows the number of cases of notifiable diseases occurring over the previous 5 years :—

	1949		1950		1951		1952		1953	
	No.	Deaths	No.	Deaths	No.	Deaths	No.	Deaths	No.	Deaths
Scarlet Fever	6	—	82	—	5	—	24	—	28	—
Diphtheria	—	—	—	—	—	—	—	—	—	—
Measles	345	—	98	—	335	—	75	—	188	—
Enteric or Typhoid	—	—	1	—	—	—	—	—	—	—
Whooping Cough	63	—	74	—	100	1	61	—	55	2
Smallpox	—	—	—	—	—	—	—	—	—	—
Pneumonia	4	2	16	7	20	5	14	4	17	5
Dysentery	—	—	—	—	—	—	—	—	1	—
Cerebro Spinal Meningitis	—	—	—	—	—	—	—	—	—	—
Erysipelas	5	—	3	—	4	—	1	—	1	—

Application for the admission of infectious diseases to hospital should be made to the Medical Superintendent of the River Hospital, Joyce Green, Telephone : Dartford 3231. In the case of smallpox, admission to hospital is arranged by the Consultant who diagnoses the disease or by the Medical Officer of Health on his behalf.

Scarlet Fever.

Cases notified during year	28
Removed to Hospital, ...	1

Diphtheria.

No cases were notified.

Poliomyelitis

Cases notified during the year	3
Removed to Hospital	2

I have received the following returns giving (a) the number of children resident in the district who were immunised against diphtheria and (b) the number of persons who were vaccinated against smallpox during the year 1953.

(a) **Diphtheria Immunisation.**

Year of Birth	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	Total
Primary Inoculations	36	174	16	7	6	19	5	1	—	—	1	—	—	—	—	265
Reinforcing Inoculations	—	—	—	—	21	148	12	5	2	2	1	—	—	—	—	191

(b) **Vaccination.**

Year of Birth	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	Before 1939	Total
Primary Vaccination	173	61	—	—	1	—	1	—	3	—	1	—	1	—	—	7	248
Re-Vaccination	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	7	8

The following return shows the number of children resident in the district under the age of 15 years on the 31st December, 1953, who had completed a course of immunisation at any time before that date, that is, at any time since 1st January, 1939.

Year of Birth	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	Total
Last complete course of injections (whether primary or booster) 1949-1953	66	29	41	32	77	131	153	231	280	266	272	220	256	197	36	2,287
1948 or earlier	163	139	180	205	135	92	90	34	16	—	—	—	—	—	—	1,054

VACCINATION.

We do not possess any natural immunity against plague (Black Death), and little against smallpox—in fact, now that vaccination is no longer compulsory, we possess less against smallpox that we did during the war.

As John Drew points out, we have to thank our island position and the conscientious work of the members of our Medical and Sanitary services at our sea and air ports, and the close liaison maintained between the staff at these ports and the M.O.H's of local Sanitary Authorities that the diseases do not gain entrance to our lands.

I cannot overstress the importance of mothers having their babies vaccinated—especially those residing on the estuary of the Thames. We never know when a case of virulent smallpox will arrive by sea.

TUBERCULOSIS

The following statement relates to the number of cases appearing on the Council's register at 31st December, 1953 :—

	Pulmonary.			Non-Pulmonary.			Pul. and Non-Pul.
	M.	F.	Total.	M.	F.	Total.	Totals.
(a) No. of cases of Tuberculosis on the register at the commencement of the year	118	81	199	14	10	24	223
(b) No of cases remaining on register at the end of the year	117	81	198	11	9	20	218
(c) No. of cases notified during the year	8	5	13	—	—	—	13
(d) No. of deaths during the year	4	2	6	—	—	—	6

Ages and occupations of persons notified during the year are as follows :—

Age M.	Age F.	Occupation.	Age M.	Age F.	Occupation.
19		Draughtsman	52		Stevedore
59		Dealer	2		Infant
	31	Housewife		36	Housewife
23		Stoker mechanic	37		'Bus conductor
39		Grit works		27	Household duties
	30	Housewife		47	Housewife
			19		Warehouse assistant

VENEREAL DISEASES.

This clinic, under the administration of the Medway and Gravesend Hospital Management Committee, is conducted by C. D. Routh, M.D., M.R.C.P. The following particulars refer to patients from Northfleet.

New Patients (Northfleet)	Male.	Female.	Total
Syphilis	—	—	—
Gonorrhoea	2	1	3
Non-Venereal	21	1	22
	23	2	25

Total No. of new patients from all areas	243
Total No. of attendances from all areas	1,733
Total No. of attendances of Northfleet patients ...	221

Discharges (all Districts) Cured—	Male.	Female.	Total.
Syphilis	6	5	11
Gonorrhoea	21	13	34
Non-Venereal	134	15	149
	161	33	194

CIRCULAR 2831—PROMOTION OF CLEANLINESS, GOOD HABITS AND THE ELIMINATION OF VERMINOUS CONDITIONS.

Cleansing Station, Brook Vale, Northfleet, is adapted for the cleansing of verminous persons, lethane is used in cases of infestation of head. Clothing is disinfected by steam whilst patients are undergoing treatment.

Five persons were treated during 1953.

NATIONAL ASSISTANCE ACT, 1948, SECTION 50

It became necessary during the year to undertake the duty imposed on Local Authorities by Section 50 of the above Act, of arranging funerals for one person. In this case no other suitable steps had been or were being made for the disposal of the body.

D. SANITARY CIRCUMSTANCES OF AREA

Water Supply.

The public supply to Northfleet is provided by two wells situated at the Pumping Station, Downs Road, owned by the Gravesend and Milton Water Company, one being a deep well sunk in chalk and the other a borehole sunk to a depth of eight hundred feet to obtain water from the green sand stratum.

All supplies are chlorinated and dechlorinated at the source, and samples of raw water and treated water, before going into supply, are submitted for bacteriological examination at regular monthly intervals, and a chemical analysis at three monthly intervals. Altogether, during the year, a total of 23 samples of untreated and 24 of treated water were submitted to the County Laboratories for bacteriological examination, and three samples were examined by the County Analyst; details of all the reports of the samples are included in the Appendix.

It was not necessary during the year to take any action in respect of any form of contamination.

Practically the whole of the houses in the area are supplied from the public mains with an internal piped supply. Sixteen houses in the district are supplied by means of standpipes in the yard. These houses are old, and when circumstances permit, it is proposed to make representations under the Housing Act for the properties to be included in Clearance Areas.

Sewerage and Sewage Disposal.

The work on the construction of the trunk sewer which will ultimately serve the rural parts of the district situated on the southern boundary is now in progress.

The present contract provides for the laying of a 3′ by 2′ egg-shaped sewer, commencing on the south side of Watling Street at its junction with Hog Lane, and continuing to Pepper Hill Lane. From there the sewer will be laid in Springhead Road, terminating at the Council's sewage disposal works at Brookvale.

The immediate purpose of the present scheme is to provide drainage facilities for the Council's new housing estates on the Painter's Ash site, but provision has been made in the design of the sewer for the reception of sewage from the Council's rural areas and parts of the neighbouring Rural District Councils' parishes.

HOUSING.

Clearance Areas and Individual Unfit Houses—Year ended 31.12.53.

Confirmed Clearance Orders	Address.	Total Houses.
The No. 1 (1952) Clearance Area	14, 16, and 18, Coopers Road	3
The No. 2 (1952) Clearance Area	1, 2, 3 and 4, Howard Square 2, Granby Road	5
The No. 1 (1953) Clearance Area	40, 41, 42, 43, 44, 45, and 46, Lawn Road, and 63, 64, 65, 66, 67 and 68, Lawn Road	13
Demolition Orders Made		
71, Dover Road, Northfleet		1
35, Perry Street, Northfleet		1
Cottage, Northfleet Green, Northfleet		1
	Total	24

HOUSING REPAIRS

During the year the Government issued a White Paper, " Houses, the Next Step," outlining comprehensive proposals for dealing with the condition of existing housing. The proposals will require legislation, and it is announced that statutory powers will be sought in a Bill which will be introduced as early as possible.

THE CEMENT DUST NUISANCE

The following is an extract from the report of the Chief Alkali Inspector to the Thames-Side Advisory Committee for the Abatement of Atmospheric Pollution, relating to the number of electrical precipitators on the Thames-Side as at the 13th August, 1953 :—

"**Alpha Cement Ltd., Metropolitan Works** :—Two kilns each provided with an electrical precipitator (there were originally three kilns but one has been dismantled this year and taken away from the Thames-side ; there is thus a precipitator without a kiln ; the fate of this precipitator is as yet undecided).

"**Tunnel Portland Cement Co. Ltd., W. Thurrock** :—There are seven kilns and six electrical precipitators. The smallest kiln is without precipitator. Over 90% of the throughput is covered by electrical precipitators (there were when operations were resumed at this works after the war three small and old kilns Nos. 1, 2 and 3. An arrangement was made that no pressure would be put on the Company to fit electrical precipitators to these three kilns, but as and when they reached the end of their useful life they would be replaced by rather larger kilns fitted with precipitators. Two such kilns, 2A and 3A have been so erected.

"**B.P.C.M. Ltd., Wouldham Works, Grays** :—Two of the three kilns are fitted with precipitators, 75% of the throughput being covered.

"**A.P.C.M. Ltd., Kent Works** :—Four kilns and four precipitators.

"**B.P.C.M. Ltd., Johnsons Works** :—Four kilns and four precipitators.

"**A.P.C.M. Ltd., Swanscombe** :—Four kilns and three operative precipitators. One precipitator derelict and useless : to be replaced.

"**A.P.C.M. Ltd., Bevan Works** :—Four kilns: No external means of dust arrestment.

As a round working figure you can take it that about 80% of the throughput is covered by electrical precipitators.

I have ignored the small kilns on natural draught which are responsible for only some 2% of the total make."

During July and August of the year under review the number of electrical precipitators was :—

A.P.C.M. Ltd. Swanscombe :—Three operative precipitators. One precipitator derelict and useless : to be replaced.

B.P.C.M. Ltd., Wouldham Works, Grays :—One kiln was at work from the 5th to the 13th August with the precipitator by-passed for repair.

The same precipitator was again by-passed on the 27th August and it was hoped the additional repairs would be completed in about 10 days.

During the period September to December, 1953, the following was the position :-
A.P.C.M. Ltd., Swanscombe Works :—Three operative precipitators. One precipitator derelict and useless : In process of replacement.
B.P.C.M. Ltd., Johnson Works :—One precipitator shut down for extensive overhaul early in October and scheduled to be back in operation towards the end of January, 1954.
B.P.C.M. Ltd., Wouldham Works :—One precipitator shut down for repair 16th November and anticipated it would be again at work by the middle of December, 1953.

ATMOSPHERIC POLLUTION

During the year it was possible for the Thames-Side Advisory Committee for the Abatement of Armospheric Pollution to commence a system of air pollution measurement on a comprehensive scale. Northfleet has one standard deposit gauge situated in Huggens College, and the table below shows the monthly results obtained :

Monthly Deposit in Tons per square mile, 1953.

	August	September	October	November	December
Rain in inches	1.30	2.36	2.97	0.26	0.70
Water-Insoluble Matter	18.26	20.00	31.28	15.40	34.47
Soluble in CS_2	0.10	0.10	0.09	0.07	0.10
Ash	13.22	15.94	28.39	12.01	28.51
Other combustible matter	4.93	3.96	2.79	3.33	5.85
Total Water Soluble Matter	15.52	18.96	25.64	14.13	29.33
Calcium (Ca^{++})	3.69	4.50	5.37	2.95	7.28
Chloride (Cl')	0.55	1.24	1.31	0.65	1.24
Sulphate (SO_4'')	4.56	5.67	8.43	7.08	14.69
Total Solids	33.78	28.96	56.92	29.53	63.80

E. INSPECTION AND SUPERVISION OF FOOD

Meat

No slaughter houses are in regular operation in the district, premises are only used very occasionally for the use of self-supply pig keepers.

Butchers shops and meat stores, however, are subjected to a routine inspection by the Council's Sanitary Inspectors, and they are examined in relation to the Public Health Meat Regulations and the Byelaws of the Ministry of Food relating to the handling, wrapping and delivery of food etc.

Food Preparing Premises.

Restaurants, restaurant kitchens and canteens are subjected to routine inspection by the Sanitary Inspectors at regular intervals.

Carcases Inspected and Condemned

	Cattle, excluding Cows	*Cows*	*Calves*	*Sheep and Lambs*	*Pigs*
Number killed (if known) ...		—	—	—	4
Number inspected	—	—	—	—	4
All diseases except Tuberculosis :					
Whole carcases condemned ...	—	—	—	—	—
Carcases of which some part or organ was condemned	—	—	—	—	—
Percentage of the number inspected affected with disease other than tuberculosis	—	—	—	—	—
Tuberculosis only :					
Whole carcases condemned ...	—	—	—	—	—
Carcases of which some part or organ was condemned ...	—	—	—	—	—
Percentage of the number inspected affected with tuberculosis ...	—	—	—	—	—

Milk.

(A) **Milk and Dairies Regulations, 1949.** (Part III).

No. of registered distributors One

No. of registered dairies One

(B) **Licences Granted** under Milk (Special Designations) Regulations, 1949 excluding licences granted by Food & Drugs authorities in relation to milk pasteurised or sterilised on the premises of the applicant.

	Dealers.	Supplementary.
Pasteurised	3	9
Sterilised	28	4
T.T. (raw)	1	1
Accredited	Nil	Nil

(C) **Milk Sampling.**

	Samples taken.	No. of unsatisfactory samples.
Pasteurised	24	5
T.T.	Nil	Nil
Sterilised	12	Nil
Accredited	Nil	Nil
Biological Examination of raw milks	Nil	Nil

Ice Cream (Heat Treatment) Regulations 1947 and 1948.

No premises in the district are registered for the manufacture of ice cream under these Regulations, but there are 54 premises registered for the sale of ice cream.

Thirty-four samples of ice cream were submitted to the County Laboratories during the year for the Methylene blue test, and the following results were obtained :—

Grading	I.	II.	III.	IV.
	24	9	—	1

Three samples of water ices were examined during the year and found to be free from matellic contamination, and one was subjected to the methylene blue test and found to be Grade I.

FOOD AND DRUGS ACT, 1938

Northfleet Council is not a Food and Drugs Authority under the Food and Drugs Act, this part of the Act being administered by the Kent County Council under the direction of Mr. S. Strugnell, to whom I am indebted for the following information relating to the sampling of food which has taken place in the district during the year.

Article.	Number of Samples.
Beans with Pork Sausages and Tomato Sauce	1
Bitter Beer	1
Blancmange Powder	2
Blue Bird Milk Toffees	1
Borax and Honey	1
Breakfast Marmalade	1
Bubbly Gum	1
Buttered Cracknels	1
Coffee and Chicory Essence	1
Cooked Spaghetti	1
Corned Beef Hash	1
Cough Linctus	1
Cream of Mushroom Soup	1
Custard Powder	1
Cut Mixed Peel	2
Dairy Milk Toffees	1
Dr. Cassells' Tablets	1
Fuller's Earth	1
Glucose Barley Sugar	1
Glycerine, Lemon and Ipecacuanha	1
Golden Butter Mints	1
Granulated Gelatine	1
Ground Almonds	1
Honey Crunch	1
Hot Milk	3
Ice Cream	1
Ice Cream Lollies	1
Ice Cream Powder	1
Ice Lollies	5
Lemon Flavouring	1
Lung Syrup	1
Meat Pies	1

Mild Beer	1
Milk	25
Mintileaf Chewing Gum	1
Non-brewed Vinegar	1
Peeled Plum Tomatoes	1
Pepper Compound	1
Pork Sausages	1
Saccharin Tablets	1
Skim Process Dried Milk	1
Soft Yellow Paraffin	1
Spaghetti	1
Sponge Mixture	1
Stoned Dates	1
Strawberry Flavouring	1
Sugar Coated Almonds	1
Sweet Pickle	1
Vapour Rub	1
Vitaminised Iron and Yeast Tonic Tablets	2
Whisky	3
White Oils Embrocation	1
Wintergreen	1
Total	88

SUMMARY

Milks	28
Drugs	12
Spirits	3
Other samples ...	45
	88

All the above samples were genuine with the exception of the following :—

Sample of	Analysis.	Action taken.
Custard Powder	Contains maize starch and potato starch, the latter not shown on the label.	Manufacturer notified.
Milk	8.3% Deficient in fat.	Due to faulty mixing. Producer advised. Further samples satisfactory.
Hot Milk	Contained 20% extraneous water. Adulterated.	Proceedings taken. Defendant fined £5.
Milk	6.7% Deficient in fat.	Further samples taken and found satisfactory.
Milk	11.7% Deficient in fat.	
Golden Butter Mints.	Butter fat in casing 1.9% ; in filling 3.1% ; in whole sweet 2.1%. Should be 4%.	Caution issued.
Blue Bird Milk Toffees.	Milk solids 5%	Under investigation.
Dairy Milk Toffees.	Fat 6.4% including 1.6% butter fat. Total milk solids 8.5%. Slightly deficient.	Further sample to be obtained.

Vitaminised Iron and Yeast Tonic Tablets.	Slightly deficient in Manganese and Vitamin C.	Under investigation.
Do.	Deficient in iron sulphate and Vitamins B.1 and C.	,, ,,
Ice Lollies	Contained 40 rodent hairs per lb.	Under investigation
Ice Cream Lollies	Contained 36 rodent hairs per lb.	,, ,,
Ice Cream Powder	Contained 90 rodent hairs per lb.	,, ,,
Strawberry Flavouring.	Contained 23 rodent hairs per lb.	,, ,,
Lemon Flavouring.	Genuine.	

OTHER FOODS CONDEMNED

The following is the summary of foods condemned as unfit for human consumption by the Sanitary Inspectors in the course of their routine duties during the year :—

Articles Condemned.	Amount. lb.	ozs.
Canned Meat	153	6
,, Fish	43	6
,, Fruit	169	11
,, Milk	36	2
,, Vegetables	15	10
,, Soup		8
Jars Pickles	1	3¾
,, Mincemeat		14½
,, Salad Cream		7¾ fluid
,, Fruit Cordial		24 ,,
Bottles Fruit Cordial		66 ,,
Tins Fruit Cordial		13
Bovine Liver	12	
Meat	188	
Suet	2	
Bottles Lemonade Crystals	1	1½
Egg Powder	21	
Packet Pudding Mixture	1	
Shell eggs	12	dozen

F. ANNUAL REPORT OF THE CHIEF SANITARY INSPECTOR FOR THE YEAR 1953.

To the Chairman and Members of the
Northfleet Urban District Council.

Mr. Chairman, Ladies and Gentlemen,

I have the pleasure to submit my annual report for the year 1953

The following tables give a general review of the work carried out :—

Number of complaints received during the year	567
Total number of visits made	3,610
Informal Notices served	287
,, ,, complied with	229
Statutory Notices served	29
,, ,, complied with	25

Visits made by Sanitary Inspectors during the year 1953 :—

Public Health Act, 1936	Primary visits	389
	Revisits	405
	Infectious Disease visits	141
	Filthy and Verminous premises	59
	Water supply enquiries	8
	Drainage Inspections	207
	,, Tested	92
	Moveable dwellings	42
Housing Act, 1936	Primary visits	706
	Revisits	162
Food & Drugs Act, 1938	Food Preparing Rooms visited	157
	Samples taken :—	
	Ice cream	34
	Water	41
	Milk	35
	Sewage	22
	Foods condemned visits	40
Factories Acts, 1937 & 1948:	Visits	53
	Re-visits	4
Shops Acts, 1912-1934	Visits	149
	Re-visits	12
Pest Extermination visits		166
Street Cleansing		96
Depots and Yards visits		189
Refuse Tip visits		76
House Refuse Collection visits		50
Sewage Works visits		14
Miscellaneous		161
Smoke observations		18
Mortuary inspections		21
Public Conveniences		15
Salvage		6

Air pollution	3
Animals	7
Flood Relief visits	32
Civil Defence	19

The following is a summary of nuisances and defects remedied during the year :—

Accumulations of offensive refuse etc., removed	21
Animals in an unfit state	3
Ashbins provided	114
Ceilings repaired or renewed	23
Cesspools repairs, septic tanks repaired or renewed	2
Chimney stacks repaired or rebuilt	9
Chimney flues repaired	1
Doors and frames repaired or renewed	8
Drainage Systems :—	
Drains repaired or reconstructed	9
Drains cleansed	108
Gully traps repaired or renewed	1
Eaves gutters repaired or renewed	16
Valley gutters repaired or renewed	2
Firegrates repaired or renewed	6
Fireplaces, brickwork and plasterwork repaired	3
Floors repaired or relaid	13
Floors, sub-floor ventilation provided	3
Rainwater downspouts repaired or renewed	18
Roofs repaired	70
Sinks repaired or renewed	2
Premises redecorated or cleansed	3
Pest extermination and verminous and filthy rooms disinfested and cleansed	22
Walls, brickwork damp-proofed	68
Walls, internal plasterwork repaired	34
Walls, external repaired	16
Water closets :—	
External structure repaired	9
Internal structure repaired	6
Flushing cisterns repaired or renewed	6
Pedestal pan and traps repaired or renewed	4
Water supply, pipes, etc., repaired	8
Windows, woodwork of frames, sashes or sills repaired or renewed	42
Sash lines provided	5
Yard surfaces repaired or renewed	2
Smoke nuisance	3

INFECTION AND DISINFECTION

The Northfleet Council have an arrangement with the Strood Rural District Council and Swanscombe Urban District Council whereby facilities for disinfection of premises and articles are provided by the Northfleet Council, on a rechargeable basis. Infected articles are treated at the steam-disinfection station at Brookvale Depot, Northfleet, and the premises are sprayed with formalin solution and formaldehyde gas. Transport is provided by Northfleet.

During the year 218 visits were made investigating cases of infectious disease and supervising the work of disinfecting. After such disinfection it is emphasised to the householders that their premises should be thoroughly cleansed.

The following is the statement of disinfecting carried out during the year : –

	Northfleet	Swanscombe	Strood
Scarlet Fever	18	15	7
Tuberculosis	15	7	8
Cancer	1	—	1
Poliomyelitis	2	—	3

INFESTATION AND DISINFESTATION

Two premises were treated for bed bugs by spraying with a liquid insecticide followed by fumigation with sulphur candles. Bedding and clothing also, where necessary, being treated at the Brookvale Depot.

The services of the steam-disinfector are also made available to the Swanscombe U.D.C. and the Strood R.D.C., when required.

BAKEHOUSES

The four bakehouses operating within the district were regularly visited during the year, and found to be in a satisfactory condition.

Foods Condemned—See page 20.

RATS AND MICE

A scheme of pest control operated on lines approved by the Ministry of Agriculture and Fisheries is now in operation in the district. The following is a summary of the work carried out :—

Premises inspected during the year ...	1.594
,, found to be infested with rats	384
,, found to be infested with mice	—
,, treated by Local Authority ...	380

DRAINS TESTING

In addition to existing drainage all new drainage works are inspected and and tested by the Sanitary Inspectors. During the year 207 inspections were made and on 92 occasions tests of the various systems were carried out.

FACTORIES ACT, 1937.

The following list shows details of factories inspected during the year 1953:—

(1) **Inspections.**

Premises.	Number on Register.	Inspections.	Number of Notices.	Prosecutions.
(1) Factories in which Secs. 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	5	8	Nil	Nil
(2) Factories not included in (1) to which Sec. 7 applies	32	49	5	Nil
Total ...	37	57	5	Nil

(2) **Cases in which defects were found.**

Particulars.	No. of cases in which defects were found. Found.	Remedied	Referred To H.M. Inspectors.	By H.M. Inspectors.	Prosecutions.
Want of Cleanliness (S1)	—	—	—	—	—
Overcrowding (S2)	—	—	—	—	—
Unreasonable Temperature (S3) ...	—	—	—	—	—
Inadequate Ventilation (S4) ...	—	—	—	—	—
Ineffective Drainage of floors (S6)	—	—	—	—	—
Sanitary Conveniences (S7)					
(a) Insufficient	—	—	—	—	—
(b) Unsuitable or defective ...	5	5	—	—	—
(c) Not separate for sexes ...	—	—	—	—	—
Total	5	5	—	—	—

PUBLIC CLEANSING DEPARTMENT.

During the year 6,236 tons (estimated) of refuse were collected and disposed of by means of controlled tipping.

CESSPOOL AND GULLEY EMPTYING.

During the year 133 cesspools were emptied. The cesspool emptying vehicle is also used for emptying and cleansing surface water gulleys on the highways, and storm-well soakaways.

As new houses and roads come into use the services of this particular vehicle for catchpit and gulley emptying is being increasingly required.

I am,

Your obedient Servant,

J. S. COWPLAND,

Chief Sanitary Inspector,

Cleansing Superintendent.

APPENDIX I.

Services available under the National Health Service Act, 1948 and the National Assistance Act, 1948.

CARE OF MOTHERS AND YOUNG CHILDREN.

From 6th July, 1948, the Kent County Council have been the responsible authority for providing these services and I am indebted to the County Medical Officer and his staff for the following information regarding facilities available and hours of attendance at the Clinics :—

Ante-Natal Clinics and Post-Natal Clinics.

Advice and ante-natal care is given and post-natal examinations are carried out :

The Conservative Club, Perry Street—1st and 3rd Wednesday mornings.

Child Welfare Centres.

These centres are available for giving advice as to the care of infants and children under the age of five years. Infant foods, National Dried Milk and Ministry of Food Vitamin products are issued. A Medical Officer and a Health Visitor are in attendance at each centre.

Council Offices Annexe—Thursday afternoons.
Toddlers, 1st Thursday.
Conservative Club, Perry Street—Wednesday afternoons.
Harden V.C. Memorial Hall—1st and 3rd Tuesday afternoons.
Istead Rise Memorial Centre—1st and 3rd Tuesday afternoons.

Diphtheria Immunisation and Vaccination.

Facilities for diphtheria immunisation and vaccination are available at the Council Offices, Northfleet on Tuesdays, Thursdays and Saturdays from 10.0 to 11.0 a.m., and at all Child Welfare Centres.

Domestic Help Service.

This service is to provide domestic help for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, mentally defective, aged, or a child not over compulsory school age. Householders are required to contribute towards the cost in accordance with their means.

Application should be made to :

Miss J. M. Cook,
District Office,
Arthur Street, Gravesend.
Telephone : Gravesend 166.

Health Visitors.

These officers are appointed for the purpose of giving advice as to the care of young children, persons suffering from illness and expectant and nursing mothers and as to the measures necessary to prevent the spread of infection.

The Health Visitors also undertake duties in connection with the School Health Service.

Health Visitors :— Mrs. M. Marks, S.R.N.
Miss J. M. Ladoo, S.R.N.
M. & C.W. Department, Council Offices, Northfleet.

Domiciliary Midwifery Service.

This service, which is free, is to secure that an adequate number of midwives is employed by the County Council for attending women in their own homes, either as midwives or maternity nurses.

The names and addresses and telephone number of County Midwives in the area are given below.

Midwives : *Miss L. M. Mills,
85 Whitehill Road, Gravesend. Gravesend 2980
Miss A. J. Woods,
37, Hardy Avenue, Northfleet. Gravesend 5165.
Mrs. D. M. Kemp,
67 Broomfield Road, Swanscombe. Gravesend 4121

* Miss Mills serves only Burch Road, Cross Road, Lansdown Square and Pier Road, the remainder of her district being in Gravesend.

Facilities are available to expectant mothers for booking and examination by Midwives at M.C.W. Centre, Council Offices, every other Wednesday 2-4 p.m. and at the M.C.W. Centre, Conservative Club, Perry Street, Northfleet, 2nd and 4th Tuesdays, 2—4 p.m.

Home Nursing Service.

This service, which is free, is to secure the attendance of nurses on persons who require nursing in their own homes. Apart from cases of emergency and accident, patients can only be attended when the nurse has been requested to do so by a doctor. At the present time it is not possible to provide a night service.

The names, addresses and telephone numbers of Home Nurses in the area are given below.

Home Nurses : Northfleet Diamond Jubilee Samaritan Fund—
(Nurses :—Mrs. D. Paine, S.R.N., R.F.N.,
16, Lamorna Avenue, Gravesend. Telephone Gravesend 4654.
Mrs. M. O'Flynn, S.R.N.,
211, Old Road West, Gravesend. Telephone Gravesend 6675.

Both nurses attend at the Council Offices, Northfleet, at 9 a.m. and 2 p.m. daily

County Ambulance Service.

The County Council is responsible for the provision of a comprehensive ambulance service throughout the County. Other than in cases of accident and emergency, no ambulance will be provided except on the recommendation of a doctor, midwife, or hospital, and in the case of sitting-case cars a special form has to be completed and signed by a doctor.

In cases of accident or emergency, if an ambulance is required, telephone '999' or (as indicated in the telephone directory or public telephone box) and ask the operator for " Ambulance."

Provision of Nursing Requisites.

Arrangements have been made with the British Red Cross Society and St. John Ambulance Brigade for the continuance of the Medical Loan Depots on behalf of the County Council. The full range of nursing requisites are available at these depots and details of the addresses and the times the depots are open for distribution are available in the district offices. These arrangements are in addition to the loan cupboards kept by District Nurses. The depots deal with all applications for the loan of nursing requisites.

Northfleet: (St. John) 69, Dover Road. Monday to Friday,
7.30 p.m.-9 p.m. (Mr. C. J. Sims, Telephone: Gravesend 4603).

Mental Welfare

Dr. L. M. Allen, Senior Assistant County Medical Officer, is Medical Officer for Mental Welfare. Dr. Allen's address is County Hall, Maidstone. (Telephone: Maidstone 4321).

An Occupation Centre for mentally defective children is held at the Anglo-Saxon Hall, Berkley Road, Gravesend, from Monday to Friday each week, 10.0 a.m. to 3.30 p.m., and children from the Northfleet area may attend this Centre if suitable.

Blind Persons.

Information on matters affecting the blind can be obtained from the County Medical Officer, County Hall, Maidstone, (Tel. Maidstone 4321-ext. 588) and the Secretary of the Kent County Association for the Blind, 15, Ashford Road, Maidstone (Telephone Maidstone 3717).

Financial assistance is provided by the National Assistance Board at the address below :

"Rosedene," 61 Shepherds Lane, Dartford.

A local Officer is now available at "Ravenscourt," Pelham Road, Gravesend. The hours of attendance are 2-4 p.m. daily and 9 a.m.- 12 noon on Saturdays.

School Health Service

The following clinics are available for children attending schools in Northfleet :

Minor Ailments	West Kent House, Station Road, Northfleet. Medical Officer attends every Saturday morning, 9.30 a.m.- 12 noon.	
Dental	West Kent House, Station Road, Northfleet. Dental Surgeon attends on alternate Wednesdays, every Thursday and Friday, and on alternate Saturday mornings. Except in emergencies, children are treated by appointment only.	
Ophthalmic	Gravesend and North Kent Hospital	Attendance at these clinics is by appointment only. Application should be made to the Principal School Medical Officer, County Hall, Maidstone.
Speech Therapy	107 Rochester Road, Denton, Gravesend.	
Child Guidance	Woodside Road, Bexleyheath.	

District Officers.

These officers are responsible for :

(a) Duties as Authorised Officers under the Lunacy and Mental Treatment Acts and Mental Deficiency Acts.

(b) Acting as representatives of the County Health Department in dealing with inquiries made by the public and arranging for County Health Services to be made available in cases of difficulty.

(c) Carrying out the duties of the County Council under the National Assistance Act in (i) arranging admissions of old, handicapped and homeless people to residential establishments other than in cases of sickness, and (ii) the care of movable property of patients who are admitted to hospital or with residential establishment provided by the County Council where it appears that there is a danger of loss or damage to the property.

District Officer: Mr. G. T. Jeffery, Arthur Street, Gravesend. Telephone : Gravesend 166.

TREATMENT OF ANTHRAX, BOTULISM, SNAKE-BITE AND MUSHROOM POISONING

List of nearest centres which keep emergency supplies of sera for the treatment of anthrax, botulism, snake-bite and mushroom (Amanita phalloides) poisoning. A 24-hour service is maintained at each centre.

	Telephone No.
Region 6 : N.E. Metropolitan	
North Middlesex Hospital, N. 18.	
Day—Chief Pathologist	Tottenham 3071
Night—Resident Pathologist	
Region 7 : S.E. Metropolitan	
South East Sub-Depot, Weavering House, Ashford Road Maidstone, Kent.	
Day Service	Maidstone 4468
	Maidstone 3604
Night Service	Maidstone 4660
	Maidstone 3718
Region 8 : S.W. Metropolitan	
South London Blood Supply Depot, Stanley Road, Sutton Surrey	Vigilant 8221
The Dispensary, Royal South Hants and Southampton Hospital (Snake Anti-Serum only)	Southampton 76211

REGISTRAR OF BIRTHS AND DEATHS

Mr. D. A. Gough

Hours of attendance :

6 Berkley Crescent, Gravesend	Mondays	9.30- 1 p.m.
	Tuesday	2.00- 4 p.m.
	Wednesdays	9.30- 1 p.m.
	Thursdays	9.30- 1 p.m.
		2.00- 4 p.m.
	Fridays	9.30- 1 p.m.
	Saturdays	9.30-11 a.m.
36 Springhead Road, Northfleet	Mondays	2.00- 4 p.m.
	Fridays	5.00- 6 p.m.

APPENDIX 2.

MEDWAY AND GRAVESEND HOSPITAL MANAGEMENT COMMITTEE GRAVESEND AND NORTH KENT HOSPITAL OUT-PATIENTS' CLINICS.

TIME TABLE

	MONDAY	
E.N.T.	Mr. Golding-Wood	9.15 a.m.
Physiotherapy	Dr. K. A. Sowden	9.30 a.m.
Medical	Dr. J. Craig	9.30 a.m.
Ophthalmic	Dr. M. F. McDonnell	1.30 p.m.
Fracture	Mr. V. M. Franklin (By appointment)	2.0 p.m.
	TUESDAY	
Dental	Mr. F. T. Wilkinson	9.0 a.m.
Ophthalmic	Mr. G. L. Simmons	9.30 a.m.
Dermatological	Dr. R. J. Cairns	9.30 a.m.
Surgical	Mr. M. Landau	11.30 a.m.
Medical	Dr. R. Moir	2.0 p.m.
Ante-Natal)	Mr. F. S. Horrocks	3.0 p.m.
Gynaecological)	Mr. A. M. Hunter	3.0 p.m.
	WEDNESDAY	
Chest Clinic	Dr. H. J. Robinson	9.0 a.m.
Chest Clinic (Refills)	Dr. H. J. Robinson	6.0 p.m.
Surgical	Mr. B. E. C. Stanley (By appointment)	9.30 a.m.
Psychiatric	Dr. S. W. Hardwick (By appointment with Almoner)	3.30 p.m.
Psychiatric (old cases)	Dr. J. J. Pearse	2.30 p.m.
	THURSDAY	
Orthopaedic	Mr. V. M. Franklin (By appointment)	9.30 a.m.
Chest (Refills)	Dr. H. J. Robinson	9.30 a.m.
Ophthalmic	Dr. W. E. Heath	9.30 a.m.
Ophthalmic (K.E.C.)	Mr. G. L. Simmons	1.30 p.m.
	FRIDAY	
Dental	Mr. F. T. Wilkinson	9.0 a.m.
Medical	Dr. J. Craig	9.30 a.m.
Fractures	Mr. V. M. Franklin (By appointment)(Registrar)	10.15 a.m.
Surgical	Mr. Sol. M. Cohen	2.30 p.m.
Psychiatric	Dr. J. J. Pearse (By appointment with Almoner)	2.30 p.m.
	SATURDAY	
Chest Clinic (Children)	Dr. H. J. Robinson (By appointment)	9.30 a.m.

DARTFORD HOSPITAL MANAGEMENT COMMITTEE

THE WEST HILL HOSPITAL

OUT-PATIENTS' CLINICS

General Medicine	W. E. R. Budd		Monday	A.M.
	N. D. McCreath		Monday	P.M.
			Thursday	A.M.
			Friday	P.M.
	J. C. Hogarth		Monday	A.M.
			Tuesday	P.M.
	G. B. Stratton		Monday	P.M.
			Tuesday	P.M.
			Friday	P.M.
Rheumatic	J. C. Hogarth		Wednesday	P.M.
			Friday	A.M.
			Friday	P.M.
Diabetic	J. Goldstein		Thursday	P.M.
			Friday	P.M.
General Surgery	T. Meyrick Thomas		Wednesday	A.M.
	T. S. Cochrane		Tuesday	A.M.
			Friday	A.M.
	J. C. Morris		Tuesday	A.M.
			Friday	A.M.
	J. A. E. Watts		Monday	A.M.
			Thursday	P.M.
Gynaecology	G. Dalley		Monday	A.M.
			Tuesday	P.M.
	A. W. Chester		Tuesday	A.M.
			Wednesday	A.M.
	W. Gross		Monday	P.M.
Infertility	G. Dalley		Thursday	A.M.
Obstetrics, Ante-Natal	G. Dalley		Thursday	P.M.
	A. W. Chester		Monday	P.M.
			Tuesday	P.M.
	W. Cross		Thursday	A.M.
(In addition five ante-natal clinics are held by midwives)				
Post-Natal	W. Gross		Wednesday	P.M.
Ophthalmology	F. Oliver Walker		Monday	P.M.
	J. A. Chivers		Friday	A.M.
E.N.T.	H. S. Gild	(Children)	Monday	A.M.
		(Adults)	Tuesday	P.M.
	J. F. Lipscombe	(Adults)	Thursday	P.M.
	E. H. Rainer		Wednesday	A.M.
			Friday	P.M.

Orthopaedics	K. F. Hulbert		Wednesday	P.M.
		(Children)	Thursday	A.M.
		Fractures	Tuesday	A.M.
	B. Lawson		Monday	P.M.
		Fractures	Friday	A.M.
Paediatrics	S.D.V. Weller		Tuesday	A.M.
			Wednesday	P.M.
	W. E. R. Budd		Wednesday	P.M.
Physical Medicine	K. A. Sowden		Tuesday	P.M.
			Wednesday	A.M.
			Thursday	P.M.
Psychiatry	H. S. Capoore		Tuesday	P.M.
			Thursday	P.M.
Dermatology	R. J. Cairns		Wednesday	A.M.
			Wednesday	P.M.
Venereology	C. D. Routh	(Women)	Monday	A.M.
		(Men)	Monday evening	
Chest Diseases	(Miss) H. Broderick		(Monday	A.M.
	H. C. Calvey		(Monday evening	
			(Tuesday	A.M.
			(Wednesday	A.M.
			(Thursday	A.M.
			(Friday	A.M.

THE SOUTHERN HOSPITAL, DARTFORD

OUT-PATIENTS' CLINICS

General Medicine	W. E. R. Budd	Thursday	P.M.
	R. G. Henderson	Tuesday	A.M.
		Thursday	A.M.
Orthopaedic Surgery	B. Lawson	Tuesday	A.M.
		Friday	P.M.
Urology	S. G. Tuffill	Tuesday	P.M.
		Saturday	A.M.
Physical Medicine	R. G. Henderson	Monday	A.M.
	K. A. Sowden	Thursday	A.M.

JOYCE GREEN HOSPITAL, DARTFORD

OUT-PATIENTS' CLINICS

General Medicine	J. Goldstein	Tuesday	P.M.
		Friday	A.M.
General Surgery	J. A. E. Watts	Tuesday	A.M.
Physical Medicine	K. A. Sowden	Wednesday	P.M.
		(For patients who live in Temple Hill area).	

APPENDIX 3

WATER SUPPLY RESULTS REFERRED TO ON PAGE 14.

Date of Sample, 1953	No. of organisms per c.c. capable of growth on Agar at : 37°C.	22°C.	Remarks.
14th January ...	0	0	Good water.
	0	0	Good water.
	0	0	Good water.
	0	0	There is evidence of recent faecal contamination.
11th February ...	0	0	Good water.
	0	0	No evidence of recent faecal contamination.
	0	0	Good water.
	0	0	Good water.
18th March ...	0	0	Good water.
	0	15	No evidence of recent faecal pollution
	0	0	Good water.
	0	8	No evidence of recent faecal pollution
15th April ...	0	0	Good water.
	0	5	No evidence of recent faecal contamination.
22nd April ...	1	0	Good water.
20th May ...	1	0	Good water.
	1	5	Good water.
	2	0	Good water.
	5	13	No evidence of recent faecal contamination.
18th June ...	0	55	No evidence of recent faecal contamination.
	4	3	No evidence of recent faecal contamination.
	3	4	No evidence of recent faecal contamination.
	1	0	Good water.
15th July ...	12	30	No evidence of recent faecal contamination.
	3	27	Good water.
	0	4	No evidence of recent faecal contamination.
	0	20	Good water.

Date of Samples, 1953	No of organisms per c.c. capable of growth on Agar at : 37°C	22°C.	Remarks.
19th August ...	332	768	No evidence of recent faecal contamination.
	25	39	No evidence of recent faecal contamination.
	2	4	No evidence of recent faecal contamination.
	0	6	No evidence of recent faecal contamination.
16th September ...	0	0	Good water.
	0	0	Good water.
	0	53	No evidence of recent faecal contamination.
	0	0	Good water.
21st October ...	0	0	Good water.
	0	0	Good water.
	6	8	No evidence of recent faecal contamination.
	0	6	Good water.
23rd November ...	0	0	Good water.
	3	26	Good water.
	0	0	Good water.
	0	4	Good water.
9th December ...	4	0	No evidence of recent faecal contamination.
	2	8	No evidence of recent faecal contamination.
	1	0	Good water.
	2	0	Good water.

In addition to submitting samples for bacteriological examination a chemical analysis is obtained from the Kent County Analyst, as necessary.

The Analyst's reports for 1953 are given below :—

	Parts per million		
	1	2	3
Physical Characters. Clear, colourless —	—	clear colourless	clear colourless
Odour	—	none	none
Deposit	—	none	none
Chemical Examination.			
Solids in Suspension (Dried at 100°C) ...	—	—	—
Solids in Solution (Dried at 180°C)	325	380	348
Solids in Solution after Ignition	—	320	295
Chlorides calculated as Chlorine	18	18	19
Free and Saline Ammonia (as Nitrogen) ...	0.02	none	none
Albuminoid Ammonia (as Nitrogen)	none	none	none
Nitric Nitrogen (Nitrates)	2.0	4.0	4.0
Nitrous Nitrogen (Nitrites)	none	none	none
Oxygen absorbed in $\frac{1}{4}$ hour at 26.7°C ...	0.05	0.09	0.04
Oxygen absorbed in 4 hours at 26.7°C ...	0.11	0.20	0.11
Toxic Metals	not detected	not detected	not detected
Free and Combined Residual Chlorine on Receipt	0.05	0.03	not detected
Hardness : Permanent	32	26	38
Temporary	160	162	114
pH	7.80	7.44	7.50
Bacteriological Examination.			
Number of Colonies developing upon agar—			
(a) In two days at 37°C per ml. ...	6	2	2
(b) In three days at 22°C per ml. ...	22	2	3
Presumptive Coliform count per 100 ml. ...	none	none	none

All samples were fit for drinking.

SEWAGE

Twenty-four samples of effluent taken from the sewage works at various points were found to be satisfactory.